MOHAMMED SATHAK A J COLLEGE OF ENGINEERING

Siruseri IT park, OMR, Chennai - 603103

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	Den	LESSON P artment of Informa		ınology				
Nan	ne of the		1	ame of the				
	Subject CLOUD COMPUTI	NG	1	ng Faculty	Mr. Syed I			
	ect Code CS8791		Y	ear / Sem	IV/VII			
Ac	cad Year 2021-2022			Batch	2018-2022			
		Course Obj						
1. Under	stand how cloud computing helps in solving	large scale scientifi	c problen	ns.				
2. Gain k	knowledge on the concept of virtualization that	nt is fundamental to	cloud co	omputing.				
3. Learn	how to lead playes in cloud.							
4. Under	stand the security issues in cloud environmen	t.						
5. Under	stand the privacy keys							
		Course Out	come					
	mpletion of the course, the students will be al							
CO1.Art	iculate the main concepts, key technologies, s	trengths and limita	tions of c	loud computing.				
CO2 I -	di	I ! 41 1 1		J				
CO2. Les	arn the key and enabling technologies that he	ip iii uie developme	5111 O1 C10	uu.				
CO3 Da	evelop the ability to understand and use the ar	chitecture of comp	ite and et	orage cloud, service	re and delivery mo	dels		
1	explain the core issues of cloud computing suc	h as resource mana	gement a	nd security and Be	able to install and	l use curi	rent cloud	
technolog	-							
CO5. Ev	aluate and choose the appropriate technologic	es, algorithms and a	pproache	es for implementati	on and use of cloud	ıd.		
			1	T	1			
Sl. No.	Topic(s)	T / R*	Periods	Mode of Teaching (BB / PPT / NPTEL)	Blooms Level (L1	co	PO	
SI. NO.	Topic(s)	Book	Required	MOOC / etc)	L6)		10	
UNIT-I	INTRODUCTION	1				1	1	
1	Introduction to Cloud Computing, Definition of	Т1	1	PPT	L1			
	Cloud	11	1	111	LI	CO1	PO1	
-	Evolution of Cloud Computing	T1	1	BB	L1	CO1	PO1	
	Underlying Principles of Parallel and Distributed Cloud Characteristics	T1 T1	1	BB BB	L2 L2	CO1	PO2 PO2	
 	Cloud Characteristics Cloud Characteristics	T1	1	PPT	L2 L2	CO1	PO1	
	Elasticity in Cloud	T1	1	PPT			PO1	
	· ·				1.2	ICO1	1 01	
-	Elasticity in Cloud		1		L2 L2	CO1	PO2	
1 0 1	Elasticity in Cloud On-demand Provisioning.	R3 R3		PPT PPT		CO1 CO1	PO2 PO2	
		R3 R3	1	PPT PPT	L2 L2	CO1		
9	On-demand Provisioning. On-demand Provisioning.	R3 R3 R3	1 1	PPT PPT PPT	L2 L2 L2	CO1		
9 Suggested	On-demand Provisioning. On-demand Provisioning. Activity: Assignment / Case Studies / Tutorials/	R3 R3 R3	1 1	PPT PPT PPT	L2 L2 L2	CO1	PO2	
9 Suggested Evaluation	On-demand Provisioning. On-demand Provisioning. Activity: Assignment / Case Studies / Tutorials/ on method: Test	R3 R3 R3 Quiz / Mini Projects /	1 1 1 Model De	PPT PPT PPT	L2 L2 L2	CO1	PO2	
9 Suggested Evaluation UNIT II	On-demand Provisioning. On-demand Provisioning. Activity: Assignment / Case Studies / Tutorials/ on method: Test	R3 R3 R3 Quiz / Mini Projects /	1 1 1 Model De	PPT PPT PPT veloped/others Plann	L2 L2 L2	CO1	PO2	
9 Suggested Evaluation UNIT II 10	On-demand Provisioning. On-demand Provisioning. Activity: Assignment / Case Studies / Tutorials/ on method: Test CLOUD ENABLING T	R3 R3 R3 Quiz / Mini Projects /	1 1 1 Model De	PPT PPT PPT veloped/others Plann	L2 L2 L2 L2 ed if any : Quiz	CO1 CO1	PO2 PO2	
9 Suggested Evaluation UNIT II 10 11	On-demand Provisioning. On-demand Provisioning. Activity: Assignment / Case Studies / Tutorials/ on method: Test CLOUD ENABLING T Service Oriented Architecture, REST and Systems	R3 R3 R3 Quiz / Mini Projects /	1 1 1 Model De	PPT PPT PPT veloped/others Plann BB PPT	L2 L2 L2 L2 ed if any : Quiz	CO1 CO1 CO2	PO2 PO2	
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29	Resource Provisioning a				1	PP			.2	CO5	PO1
30	Global Exchange of Clou		T		1	PP			4	CO5	PO1
31	Security Overview - Clo	Т	`1	1	PP	T	I	.2	CO5	PO1	
32	Software-as-a-Service		Т	1	1	PF	Т	I	2	CO5	PO1
33	Software-as-a-Service		F	R1	1	В	В	I	.3	CO5	PO3
34	Security Governance			R1	1	В			.2	CO2	PO2
35	Virtual Machine Securit		2	1	В			.2	CO2	PO3	
36	IAM – Security Standar			R2	Madal Da	B			Dala alaa	CO3	PO3
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30	Hadoop – MapReduce –		Т		1	B	В	I	.2	CO2	PO1
31	Google App Engine	VII tuuli Box		R1	1	В			.2	CO3	PO1
32	Programming Environm	ent for Google App	F	R1	1	В	В	I	.4	CO2	PO1
33	Programming Environm	ent for Google Ann	- I	21	1	В	R	ī	.2	CO3	PO1
34	Open Stack – Federation			R1	1	B			4	CO2	PO1
35	Four Levels of Federation			11 11	1	В			.3	CO2	PO3
36	Four Levels of Federation		R	R1	1	В	В		_3	CO3	PO3
37	Federated Services and			21	1	В			.3	CO5	PO3
38	Future of Federation.	-ррисционо		R1	1	В			.3	CO5	PO3
1 1 2 3	1. Kai Hwang, Geoffery First Edition, Morgan K Rajkumar Buyya, Chris Toby Velte, Anthony Vel George Reese, "Cloud A	aufman Publisher, an tian Vecchiola, S. Than tte, Robert Elsenpeter,	garra, "Distri Imprint of Else Re- naraiSelvi, —M "Cloud Compu es: Building Ap	ference B Iastering outing - A F	Cloud Co 2. Books Cloud Con Practical A	nputing , Ta	ata Mcgra Fata Mcgr	w Hill, 20 aw Hill, 2	13. 009.		
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CO1	3	2	3	0	0	0	0	0	0	0	0	0	3	2
CO2	3	2	3	0	0	0	0	0	0	0	0	0	3	2
CO3	3	2	3	0	0	0	0	0	0	0	0	0	3	2
CO4	3	2	3	0	0	0	0	0	0	0	0	0	3	2
CO5	3	2	3	0	0	0	0	0	0	0	0	0	3	2
Avg	3	2	3	0	0	0	0	0	0	0	0	0	3	2
	Justification for CO-PO mapping													
CO1	Computing techniques to solve large scale scientific problems (Engg.Knowledge, Maths)													
CO2	Apply the concept of virtualization. (Engg.Knowledge)													
CO3	Use the grid and cloud tool kits in virtualization data center(Engg.Knowledge)													
CO4	Apply the security models in the grid and the cloud environment (Engg. Science)													
CO5	Explain the security architecture design and various sectors (Design solutions for Complex engg problems)													
3	3 High level						N	Ioderate le	evel		1		Low leve	:1

Name & Sign of Subject Expert	: Ms.B.Pavithra
Head of the Department	:CSE